USER MANUAL

200W LED MOVING HEAD SPOT

Model: MHLED 200D

CE

Please read over this manual before operation the light

ATTENTION

Thank you so much to choosing our light! **This** is powerful in functions with “CE” Standard. It has been tested through frequent practice in deferent cases, and well recognized by professional designers in the filed of stage light. It fully shows the modern times light characteristic with good performance, it can be used in all kinds of scenes with need high quality lighting.

Please read this manual carefully before powering or installing the fixture, follow the safety precautions listed below and observe all warnings in this manual.

Warning: Always disconnect from mains supply before replacing the lamp, or not, it will burn the light.

1. Disconnect the fixture from AC power before removing or installing the lamp, fuses, or any part, and when not in using
2. Always make the fixture connected to the ground electrically.
3. Please stop using when it is very hard to use, and check the problem with our agent or factory.
4. If lamp on/off by controller please pays attention to the voltage depressed when open a lot of light in one time.
5. Using Electromagnetic ballast, the second time to open the light should be after 15minite from the first time.(electronic ballast have hot start-up function)
6. Don’t expose the fixture to rain or moisture.

Technical parameters

Voltage / frequency:：100-240V AC，50/60Hz

Consume Power：280W

LAMP：**200W RGBW 4IN1 Multi-Color LED Lamp**

LED COLOR WHEEL： 13Color + White, rainbow effect

Fixed Gobo wheel:：6 gobo＋White，flowing Effect from slow to fast。

Rotation Fixed Gobo wheel:：6 gobo＋White，Double-directional variable speed rotation

3 Prism：Speed and direction adjustable 3-facet prism

Dimmer/Strobe：Dimmer,1-20times/sec.

Dimmer: Electronic

IRIS：2-100% IRIS

Rotation Angle：X 540°，Y 270°.

Control signal: DMX512/RS232 compatible 25CH

Modes of operation: stand-alone, DMX512, master / slave.

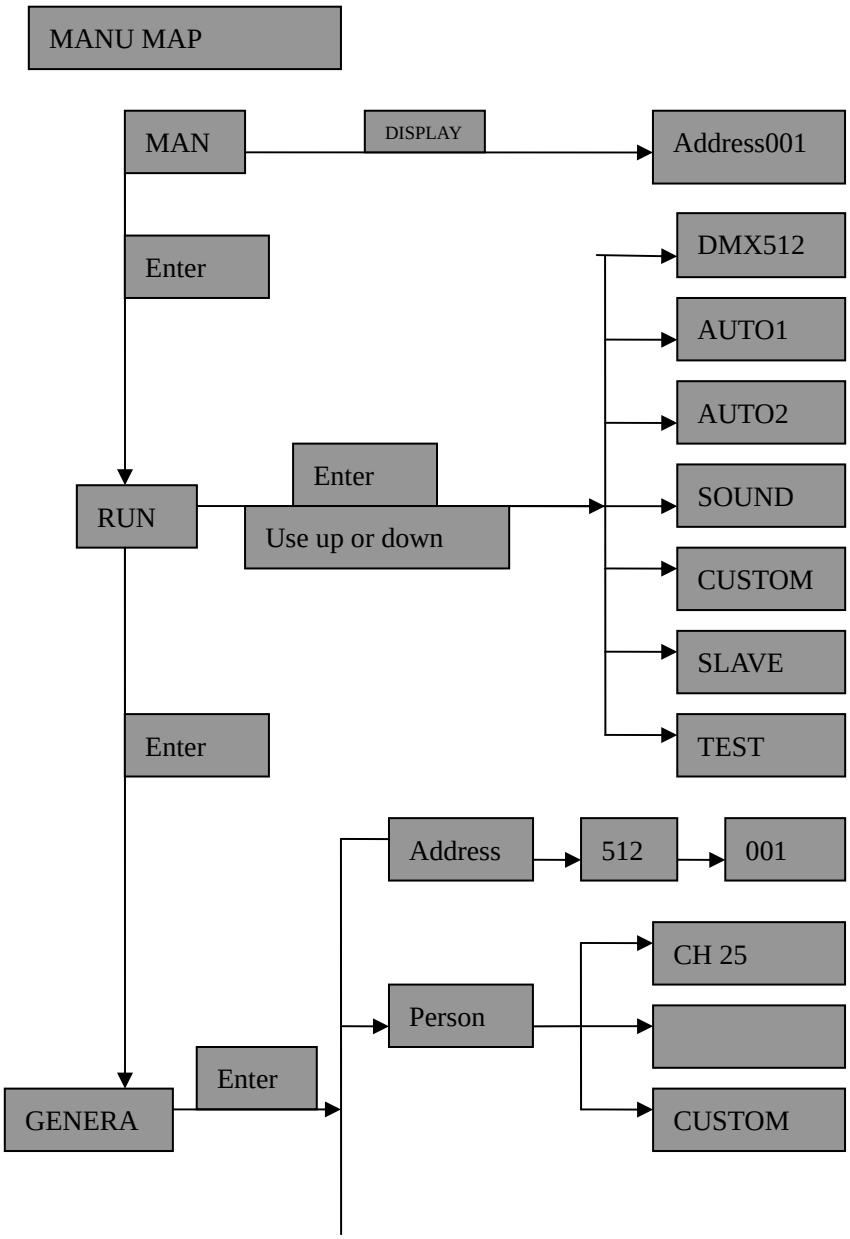
Weight: 16.2 kg

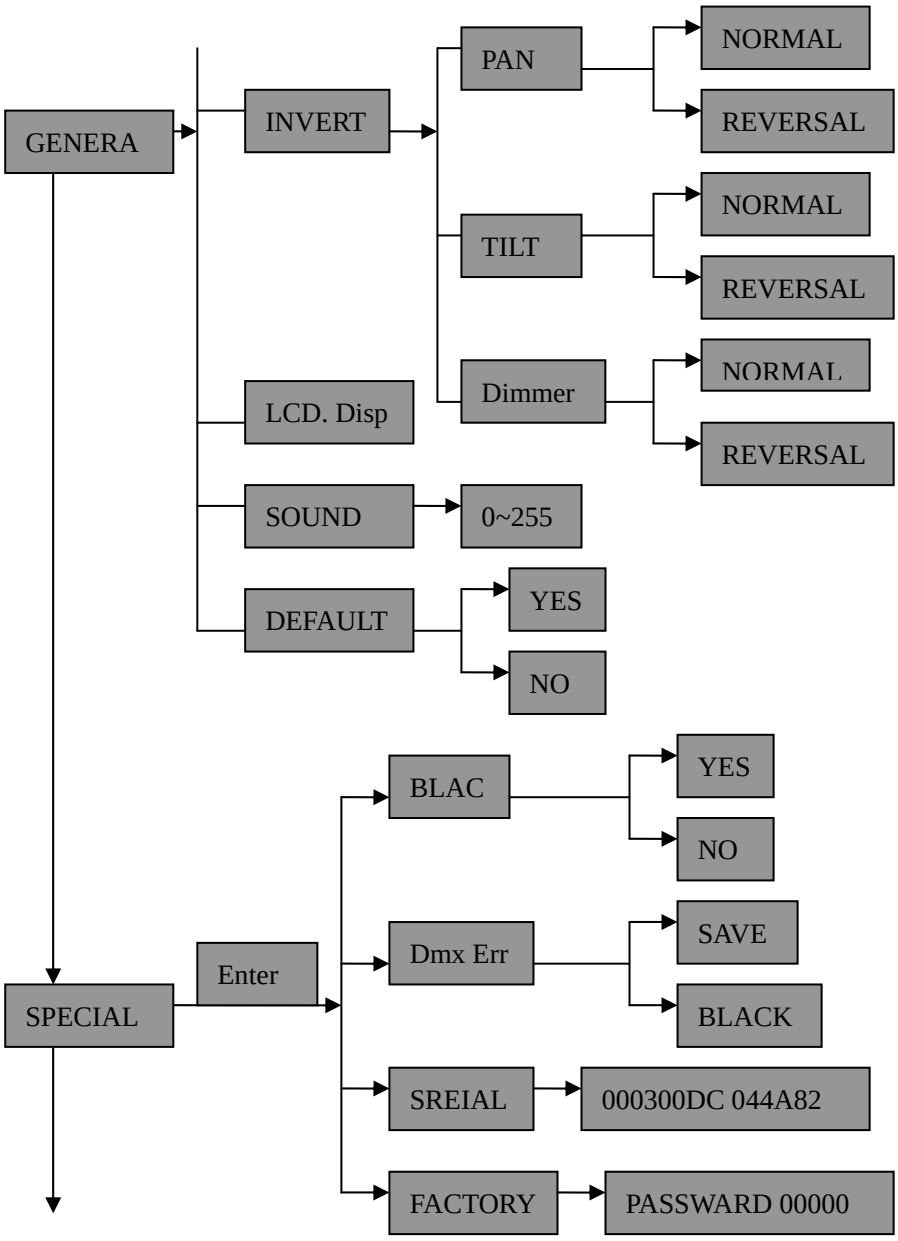
Lamp size: 340 * 260 * 555mm

Packing size: 500 * 440 * 440mm

Panel Instructions

Mode 1: A001 factory default setting, this mode is DMX512 signal control, press ENTER to enter the address code, Press UP or DOWN to change the address number, press ENTER, to save.


MANU MAP
MAN
DISPLAY
Address001
Enter
DMX512
AUTO1
AUTO2
Enter
RUN
SOUND
Use up or down
CUSTOM
SLAVE
Enter
TEST
Address
512
001
CH 25
Person
Enter
GENERA
CUSTOM



DMX CH LIST

CH		DMX Value	Function
CH1	General Dimmer	0-255	General Dimmer,from dart to light
CH2	R	0-255	Dimmer，from dart to light
CH3	G	0-255	Dimmer，from dart to light
CH4	B	0-255	Dimmer，from dart to light
CH5	W	0-255	Dimmer，from dart to light
CH 6	Color	000-002	R

		003-004	RW
		005-007	RG
		008-009	RGW
		010-012	G
		013-014	GW
		015-017	GB
		018-019	GBW
		020-022	B
		023-024	BW
		025-027	RB
		028-029	RBW
		030-039	W
		40-150	Slow - Fast (CCW)
		151-255	Fast - Slow (CW)
CH7	Strobe	0-3	White
		4-225	Strobe
		226-255	Dark
CH 8	Dimmer	0-255	Dark - Light
CH 9	Gobo 1	0-9	White
		10-19	Gobo1
		20-29	Gobo2
		30-39	Gobo3
		40-49	Gobo4
		50-59	Gobo5
		60-71	Gobo6
		72-113	Slow - Fast (CCW)
		114-117	Stop
		118-159	Fast - Slow (CW)
		160-173	White shake slow - fast
		174-187	Color1 shake slow - fast

		188-200	Color2 shake slow - fast
		201-214	Color3 shake slow - fast
		215-227	Color4 shake slow - fast
		228-241	Color5 shake slow - fast
		242-255	Color6 shake slow - fast
CH 10	Prism	0-127	White
		128-255	Prism
CH 11	Prism Rotation	0-20	Angle 0
		21-41	Angle90
		42-62	Angle180
		63-83	Angle270
		84-104	Angle360
		105-127	Angle450
		128-190	Fast rotate to Slow rotate (CW)
		191-192	Stop
		193-255	Slow rotate to fast rotate (CCW)
CH12	IRIS	0-127	Big to Small
		128-255	Auto move slow - fast
CH 13	Frost	0-255	0-100% Frost
CH 14	Focus	0-255	0-100% Focus
CH 15	PAN	0-255	540° (630° when set as 630° angle)
CH 16	PAN Fine	0-255	1.8°
CH 17	TILT	0-255	270°
CH 18	TILT Fine	0-255	1.8°
CH 19	Gobo 1	0-9	white
		10-19	Gobo1
		20-29	Gobo2
		30-39	Gobo3
		40-49	Gobo4
		50-59	Gobo5

		60-71	Gobo6
		72-113	Slow - Fast (CCW)
		114-117	Stop
		118-159	Fast - Slow (CW)
		160-173	White shake slow - fast
		174-187	Color1 shake slow - fast
		188-200	Color2 shake slow - fast
		201-214	Color3 shake slow - fast
		215-227	Color4 shake slow - fast
		228-241	Color5 shake slow - fast
		242-255	Color6 shake slow - fast
CH 20	Rotation Gobo	0-63	Stop
		64-127	Slow - Fast (CCW)
		128-191	Fast - Slow (CW)
		192-255	Atuo.
CH 21	Reset	0-255	Reset Lighting position (stay 3Sec)
CH 22	X、Y Speed	0-255	Fast to slow
CH 23	Color Speed	0-255	Fast to slow
CH 24	BEAM TIME	0-255	Fast to slow
CH 25	Gobo Speed	0-255	Fast to slow

Power Supply Mains

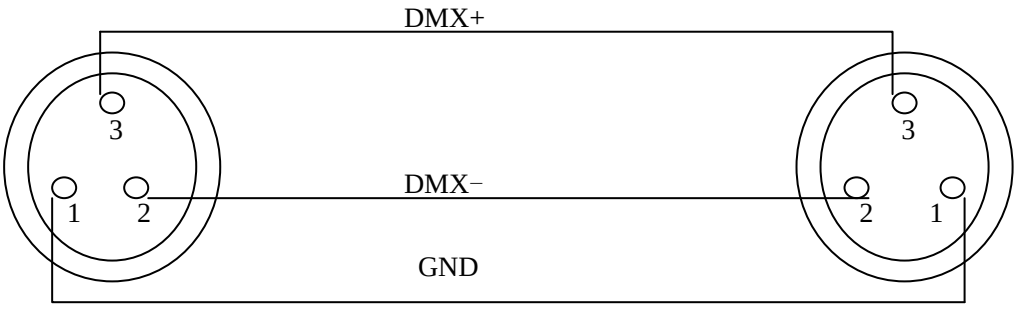
Use the provided plug to connect the main power to the projector paying attention to the voltage and frequency marked on the panel of the projector. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

IMPORTANT

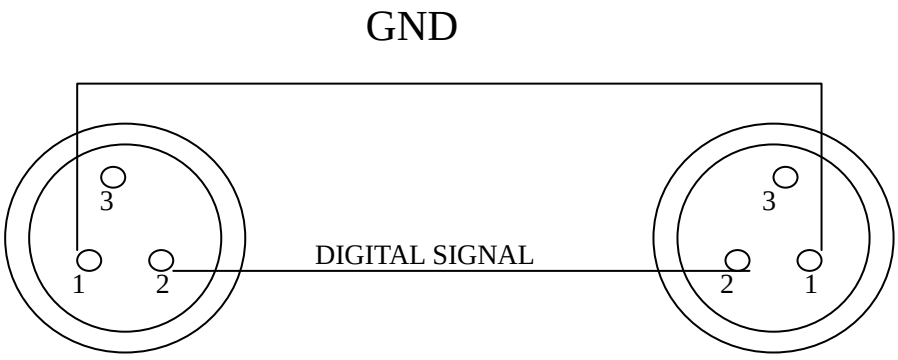
It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards. Power consumption of this projector is 200VA.

WATCHDOG SYSTEM

When the projector is switched on the electronics performing a reset, this function moves the head to an extreme limit point and rotates the internal color and gobo wheels thus allowing the microprocessor control system to register the positions of all motor under its control. When the lamp strikes and fires up it can create some noise within the projector that has the potential to disturb the microprocessors. This projector is fitted with an electronic watchdog system that monitors the microprocessor and will initiate a reset if the functioning of the microprocessor has been disturbed. This system ensures that the reset is performed successfully and once completed the projector is ready to receive control instruction and operate without problem.



Connecting DMX512 digital signal,
Please using high quality screen line to connect it, for fear interfering.



Rigging（Optional）

This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps is needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

1, Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.

2, Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to

clamp bracket, and then screw the nuts.
3, Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.
4 Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.
5 Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.

Maintenance

Install and replace lamp，the attentions are as follows:

- HMI MSI lamp's average life is 750 hours, please check if it works out before replace it.
- Draw out the line of power supply.
- Cool the bulb for 10-15 minutes after it blacks out, and then tweak the four screws. Open the cover, get the old bulb out and insert the new one.

Cleaning of lens system

- Wash exterior and interior optical mirrors to enhance the brightness in regular time, especially when equipment used in messy surroundings. Use mirror cleanser (or alcohol) to wash exterior mirrors in every 15/20 days, 40/60 days for interior focusing prism/reflector.

Safety information

- Do not separate the light personally.
- Prevent liquid, water and metal into the equipment.

The equipment not fit for cases below:

- Relative humidity is too high.
- Shake and hit
- Room temperature is above 40 degree or below 0 degree.
- Relative temperature is below 30 degree or above 80 degree.

Alarm：

- Replace the housing, lens and ultraviolet radiation when visible damage takes place, such as cracks.
- Replace the lamp when damage happens to it or its maximum life is used up.
- Shut off the power supply when replace lamp, safety box, and any other accessories and when it does not work.
- Keep the ground switch connected to ground.
- Power supply must meet the local standard on architecture and electric signal with overload protection and connect to earth.
- Do not make light beam shine on skin, do not look at the light source directly.
- Prevent short circuit happening to temperature control switch and safety box. When

replace defective fuse, choose approved new fuse of the same type.

- Keep the distance more than 1 M from equipment to flammable material (such as cloth, wood, paper).
- Keep the distance 0.1 M from fan to vent.
- When housing of equipment feels very hot, cool it for 15 minutes before operation.
- Advise you to choose accessories produced by us when install and replace.
- Whenever install or move equipment, set an alarm to prevent others entering job site.
- Do not put your hand between side arm and light structure when light working. (shown in picture 1 by arrow)
- Keep the optical system clean. Make the maintenance according to this manual when use in messy and dusty environment
- Luminous flux will decrease once the mirror gets covered by fatness or dust.

Solutions to problems

Phenomenon

Of power supply

- Lamp does not light, motor does not work itself.
  When reset, indicator light of On/Off does not light.
- Lamp lights, reset, but one of the protocols out of control.
- Lamp not in stable control for lighting.
- Light spot not bright enough.
- Lamp lights, then black out, and lights again in a while.

Causes：

- Power supply not in normal state, not well connected, the fuse breaks up.
- Control line not connected, or connected not to the right address code, please check the address code.
- Voltage is too low, lamp close to using up
- Lamp close to using up, optical mirror not clean.
- Over heat protection, please check if cooling system is blocked or not.